# CS 255 Module Two Assignment Template

## Functional Requirements

| **Functional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Content Management | Delivery of documents for students to be able to download from different types of devices and mechanism for students to upload documents for assignments. |  |
| Administration | Must support the ability to control system access, assign courses to students and management of students. |  |
| Notifications | Must allow the system to provide notifications to users such as: when the submission of assignments take place, upcoming assignment deadlines and of announcements. |  |
| User Interface | Users must have a way to interact with courses and allow for students to be able to study and complete assignments. |  |
| Communication | Users must be given a way to communicate with instructors and other students. |  |
| Help | Provide students with the ability to get help if needed in a particular course. |  |

## Nonfunctional Requirements

| **Nonfunctional Requirement** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Availability | System must be available 99.9% of the time. Downtime must be planned ahead of time. | (Dennis, Haley, & Tegarden, 2012) |
| Capacity | System must be able to hold historical data for a undetermined amount of time and be accessible within an acceptable amount of time. | “ “ |
| Performance | The system must respond to requests within an acceptable amount of time. | (Altexsoft, 2021) |
| Security | The system must offer current security principles such as SSO | (Altexsoft, 2021) |
| Reliability | The information the system maintains must be reliable thus it should connect to the main system database, so the most up-to-date information is obtained. | (Altexsoft, 2021) |
| Logging | The system should log all transactions so that if issues are encountered or discrepancies are found issues can be resolved. |  |

## Assumptions

| **Assumption** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Instructor can create course content | Instructors within a given institution will be able to create content for courses they will oversee. |  |
| System updates will minimally impact students or instructors | Scheduled system updates will be completed at a time that will minimally impact students and instructors. |  |

## Limitations

| **Limitation** | **Rationale for Requirement** | **Source(s), APA format** |
| --- | --- | --- |
| Hardware | System performance will be limited to the hardware the LMS runs on. Keeping the hardware up-to-date or to keep up with needed capacity. |  |
| Language | System must be able to deliver the user interface in different languages to support users speaking different languages. |  |
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# Works Cited

Altexsoft. (2021, July 23). *Functional and Nonfunctional Requirements: Specification and Types*. Retrieved from Altexsoft Software: Identify two assumptions and two limitations for this LMS design project.

Dennis, A., Haley, B., & Tegarden, D. (2012, Feb). *System Analysis and Design with UML, 4th Edition*. Retrieved from Oreilly.com: https://learning.oreilly.com/library/view/systems-analysis-and/9781118037423/08\_chapter003.html#ch003-sec008